

# PATMOS 2017

27<sup>th</sup> International Symposium on  
Power and Timing Modeling, Optimization and Simulation

Thessaloniki, Greece

September 25 to 27, 2017



PATMOS has a history of 27 years and it is one of the first conferences world-wide to focus on low power. PATMOS 2017 will be held in Thessaloniki, Greece. The traditional scope of the PATMOS conference series has mainly been about and around the design of circuits and architectures optimized for highest performance at lowest power consumption. But meanwhile, power-efficiency has become extremely important for many more areas spreading far beyond this traditional R&D niche. Energy-efficient ICT (Information and Communication Technology) infrastructures are a key issue of local and global economies. Some predict that until the year 2030, if current trends continue, the electricity consumption caused by the Internet to grow by up to 30 times. Energy prices will grow substantially. The next generation of oil and gas seismic simulations, for instance, will require orders of magnitude more computational power. The strong increase of wireless communication and the growth of cloud computing will further contribute to this trend. A future peta- or exa-flop supercomputer would need its own power plant if the gap between computation and power consumption could not be resolved. It is the intention of PATMOS 2017 to think beyond current solutions such that the very wide gap between computation and the massive energy consumption for ICT infrastructures can be closed.

## Topics of Interest:

Authors are invited to submit manuscripts of original unpublished research. The topics of interest include, but are not limited to:

- Timing and Performance
- Low Power and Thermal-aware Design
- Compilers, Operating Systems and Runtime Systems
- FPGAs and GPU-based Accelerators
- Power-efficient High-performance ICT and Data Centers
- Design for Aging
- Case studies

## General Co-Chairs:

**Spiros Nikolaidis**  
Aristotle University of Thessaloniki, Greece  
[snikolaid@physics.auth.gr](mailto:snikolaid@physics.auth.gr)

**Alkis Hatzopoulos**  
Aristotle University of Thessaloniki, Greece  
[alkis@eng.auth.gr](mailto:alkis@eng.auth.gr)

## Program Co-Chairs:

**Alberto Garcia-Ortiz**, Univ. Bremen, Germany  
[agarcia@item.uni-bremen.de](mailto:agarcia@item.uni-bremen.de)

**Bastien Giraud**, CEA-LETI, France  
[bastien.giraud@cea.fr](mailto:bastien.giraud@cea.fr)

## Important Dates:

Submission deadline (Regular Papers):

~~May 8, 2017~~ **May 29, 2017**

Submission deadline (Special Sessions):

~~May 15, 2017~~ **May 29, 2017**

Notification of acceptance:

~~June 26, 2017~~ **June 30, 2017**

Camera-ready papers due:

**July 24, 2017**



<http://patmos2017.web.auth.gr>

[www.patmos-conf.org](http://www.patmos-conf.org)



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